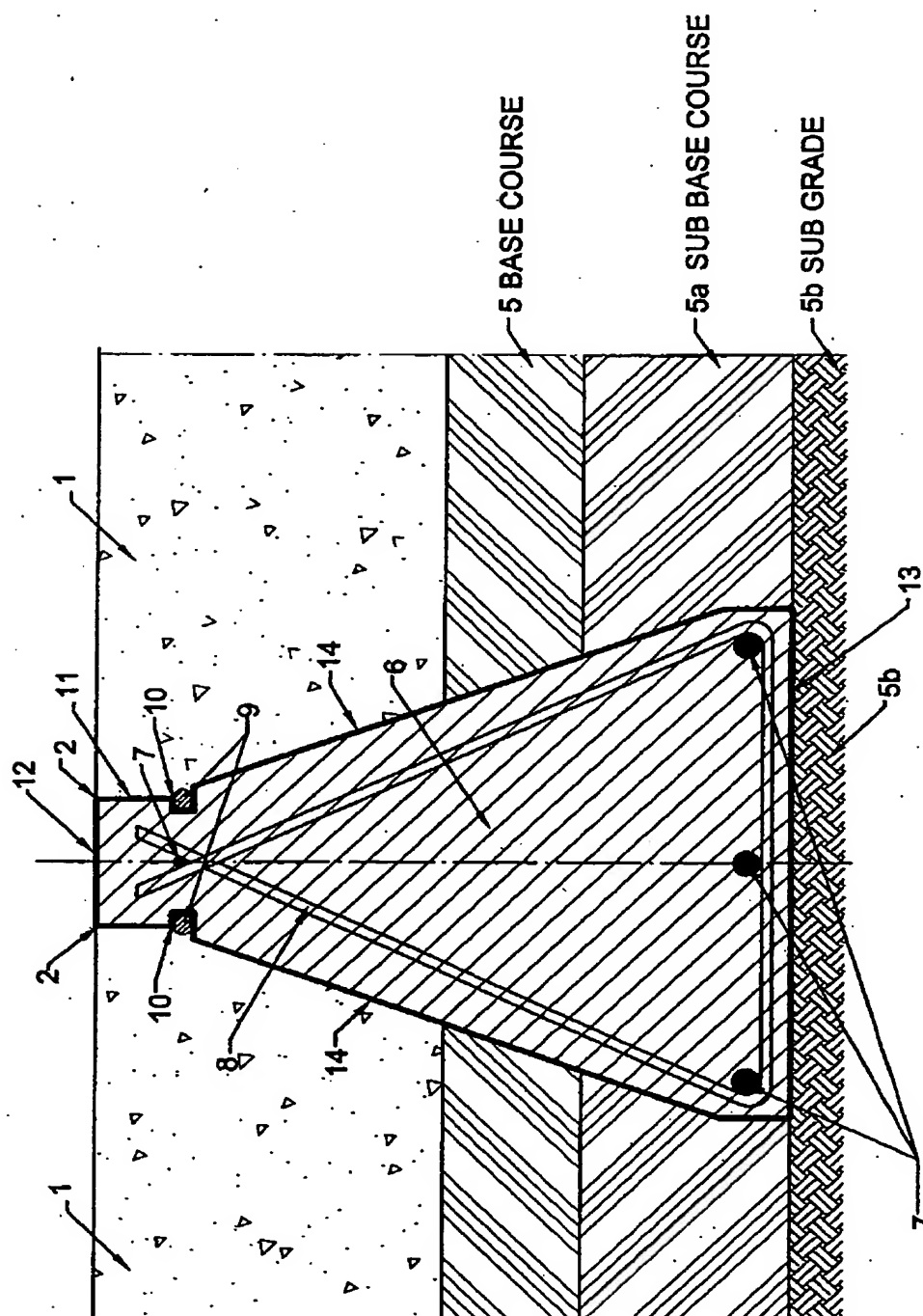


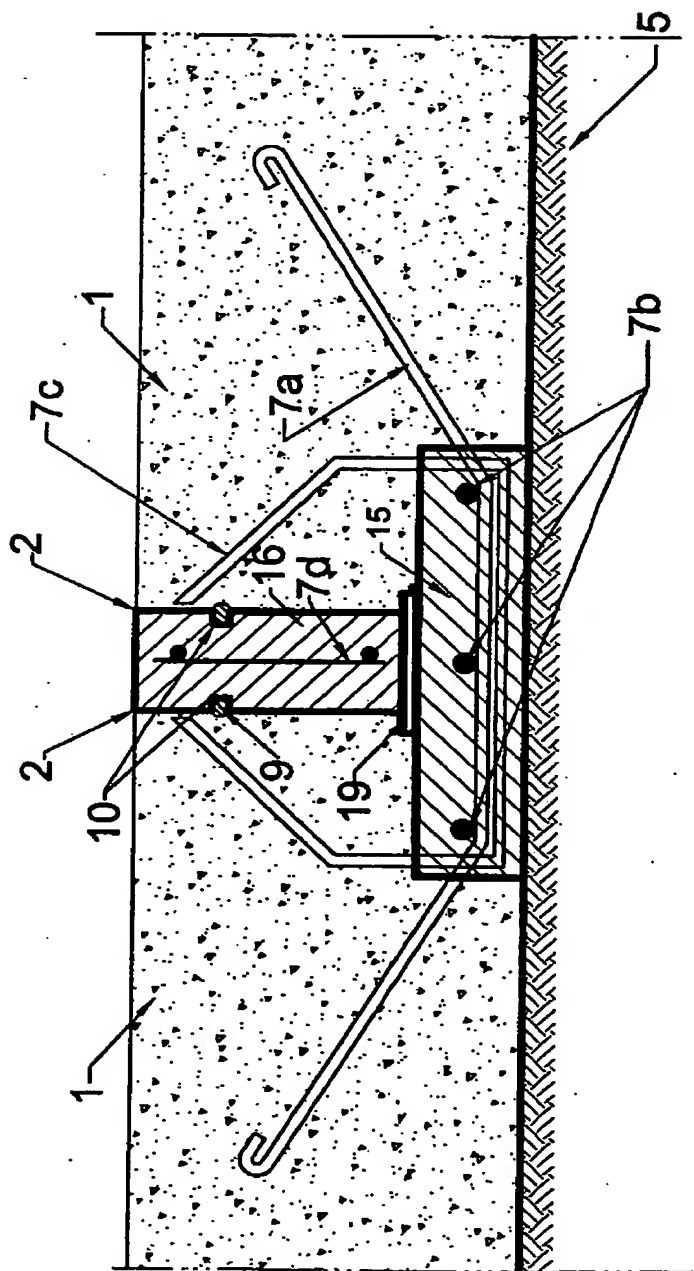
FIG. 1a

This diagram shows a cross-section of a composite material. A central core, labeled 6, is surrounded by a matrix material, labeled 1. The core is composed of two main parts: a top layer, labeled 8, and a bottom layer, labeled 14. The top layer 8 is further divided into a top surface, labeled 12, and a bottom surface, labeled 11. The bottom layer 14 is also divided into a top surface, labeled 10, and a bottom surface, labeled 9. The matrix material 1 is shown with a stippled texture. The core 6 is shown with a diagonal hatching pattern. The top surface 12 is shown with a cross-hatching pattern. The bottom surface 10 is shown with a cross-hatching pattern. The top surface 9 is shown with a cross-hatching pattern. The bottom surface 11 is shown with a cross-hatching pattern. The core 6 is also labeled with 13 and 14. The matrix material 1 is also labeled with 13 and 14. The top surface 12 is also labeled with 13 and 14. The bottom surface 10 is also labeled with 13 and 14. The top surface 9 is also labeled with 13 and 14. The bottom surface 11 is also labeled with 13 and 14.

FIG. 2



VARIANT 3



VARIANT 1a

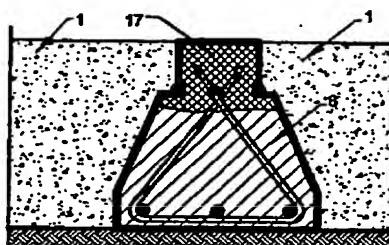


FIG. 5a

VARIANT 2a

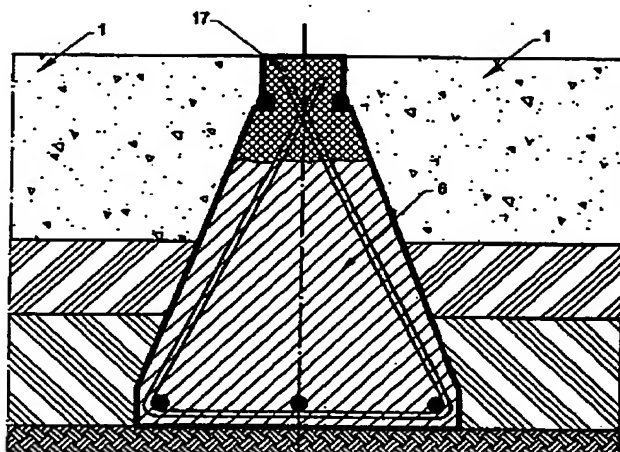


FIG. 5b

VARIANT 3a

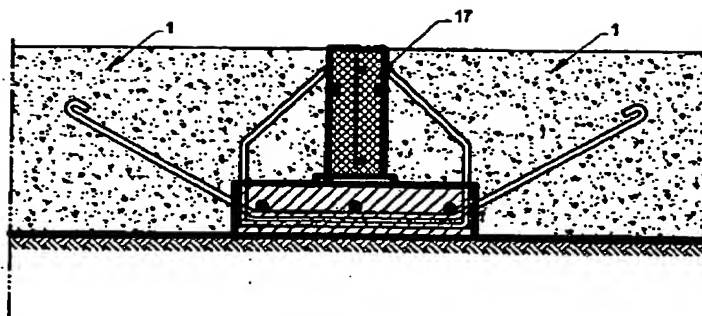


FIG. 5c

VARIANT 1b

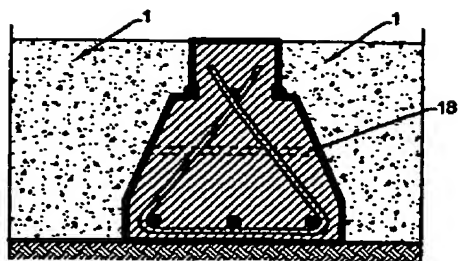


FIG. 6a

VARIANT 2b

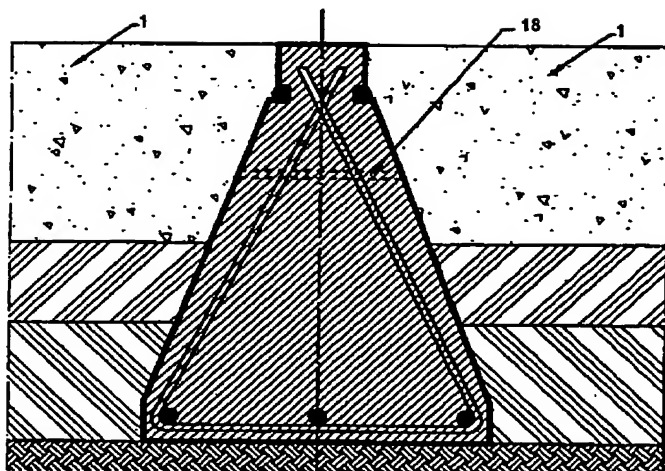


FIG. 6b

VARIANT 3b

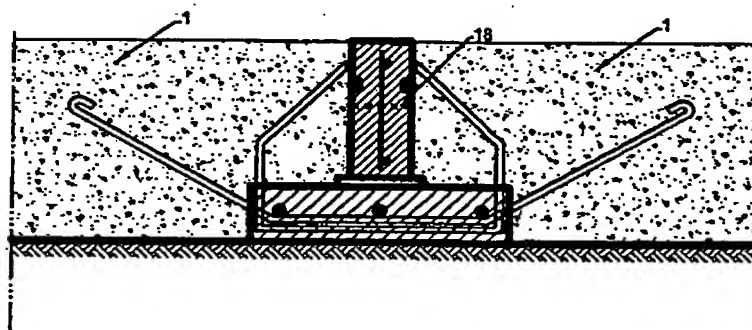


FIG. 6c

VARIANT 1c

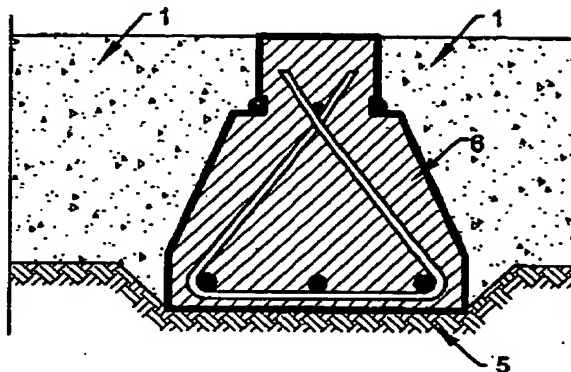


FIG. 7a

VARIANT 3c

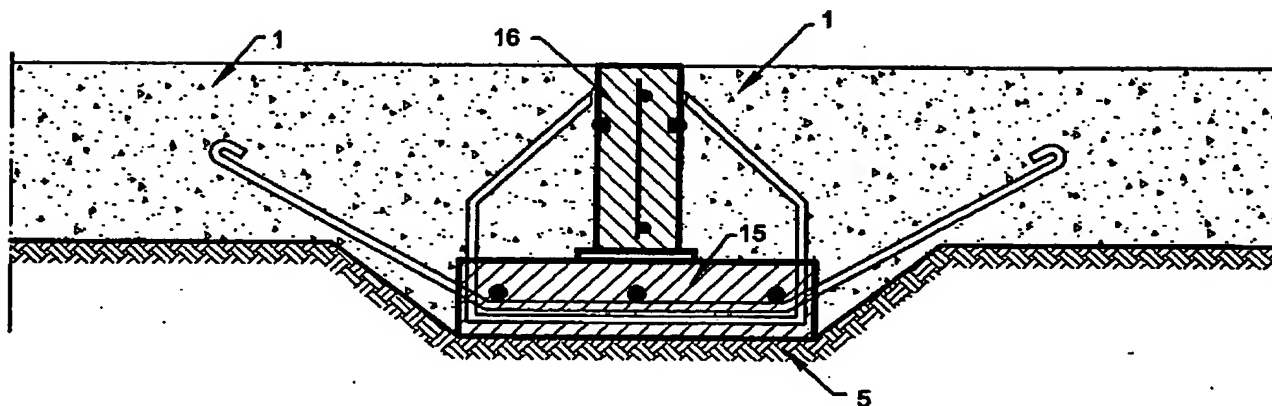


FIG. 7b

VARIANT 1d

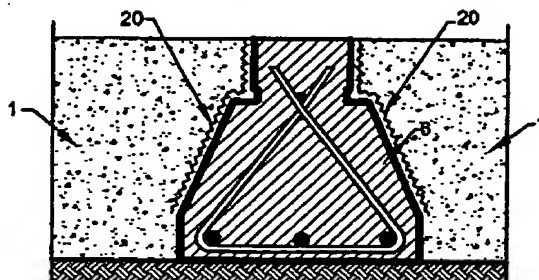


FIG. 8a

VARIANT 2d

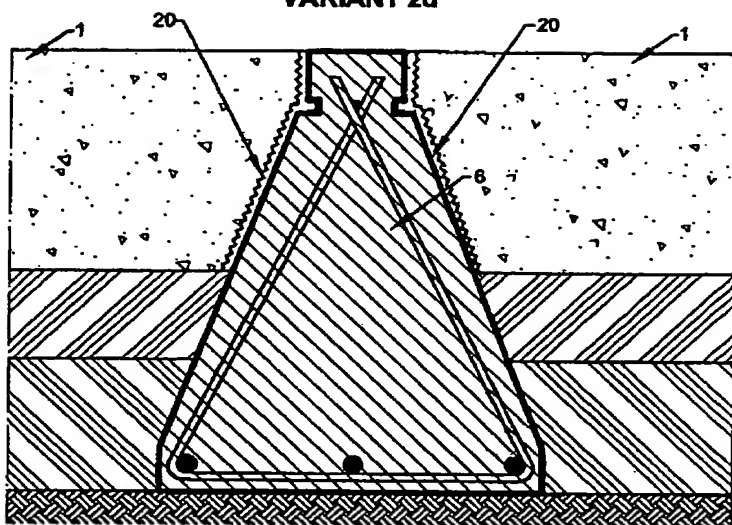


FIG. 8b

VARIANT 3d

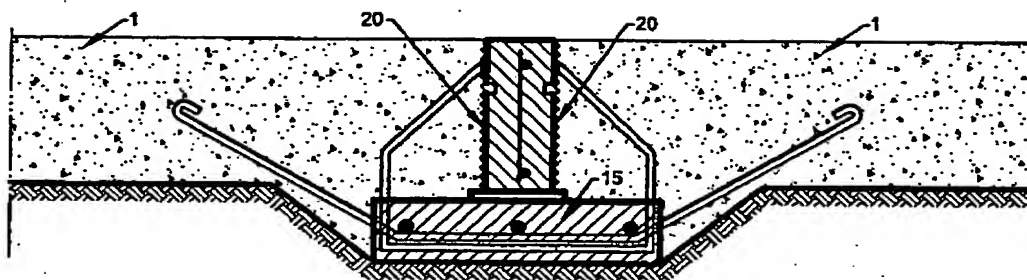


FIG. 8c

VARIANT 4

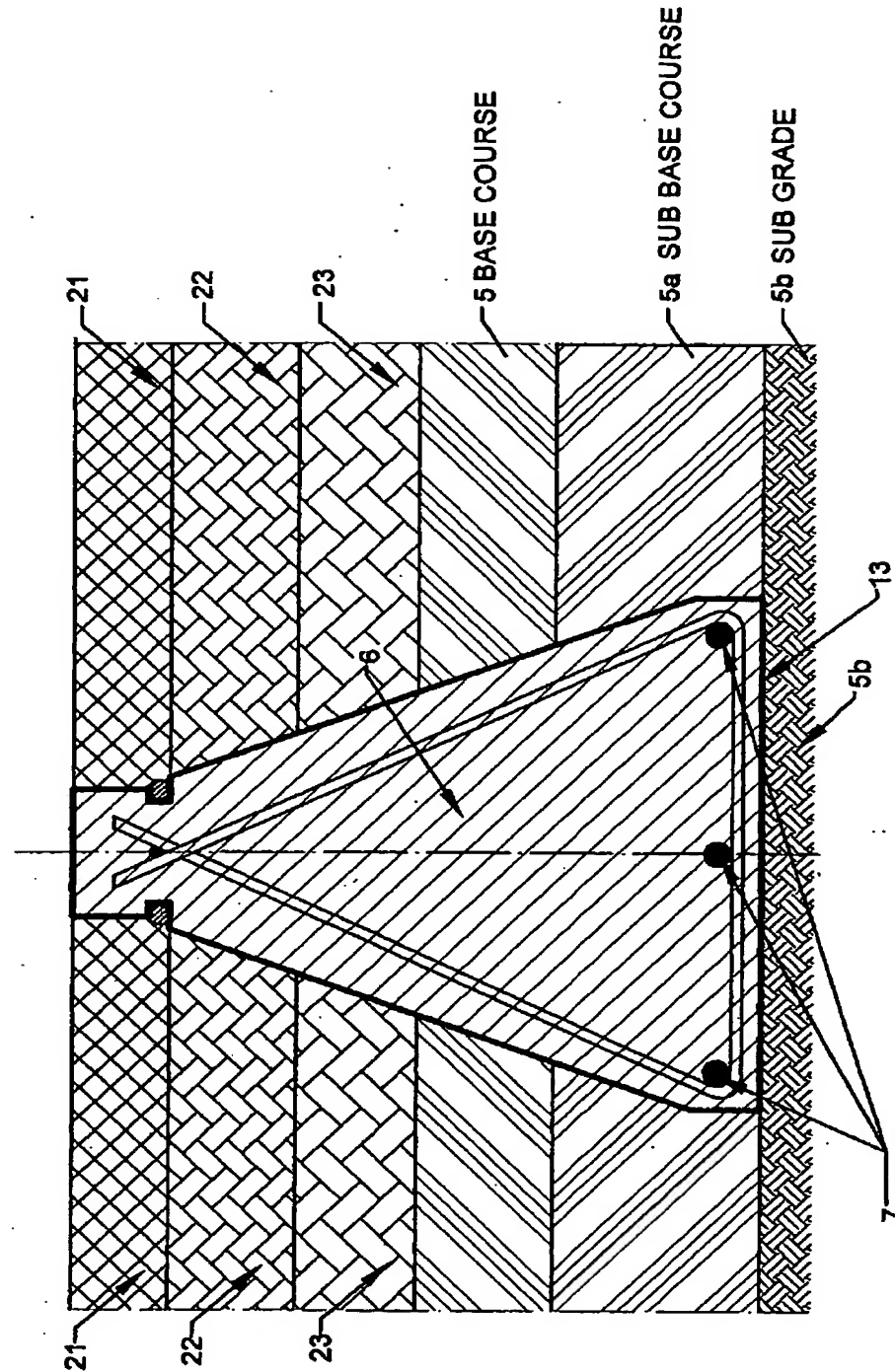


FIG. 9

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